Redmine - Defect #31831
Back url parse in validation
2019-07-31 12:04 - Tibinko H

Status: Closed
Priority: Normal
Assignee: Marius BĂLTEANU
Category: Code cleanup/refactoring
Target version: 6.0.0
Resolution: Fixed

Start date: 
Due date: 
% Done: 0%
Estimated time: 0.00 hour
Affected version: 4.0.4

Description
Hello,

for example on issues screen, when you apply filters, it generates an url containing:

```
utf8=✓
```

Because of this bulk_edit (for instance) is unable to redirect back to this url.
The reason is a function in application_controller.rb - validate_back_url

```
URI.parse(back_url) is unable to parse the special character mentioned above.
```

The quicke workaround would be

```
URI.parse(URI.encode(back_url))
```

but i am not sure that is sufficient.

Related issues:
Related to Redmine - Defect #31552: View switches from gantt to list after ed... Closed
Related to Redmine - Feature #40190: Stop appending the utf8 checkmark parame... Closed

Associated revisions
Revision 22710 - 2024-02-14 00:17 - Marius BĂLTEANU
Replaces URI.parse with Addressable::URI.parse(url) to enhance robustness of validate_back_url (#31831).
Patch by Go MAEDA (@maeda).

History
#1 - 2019-08-01 08:09 - Mizuki ISHIKAWA
It looks good.
I have also suggested the same fix (#31552#note-2).

#2 - 2019-08-01 10:20 - Tibinko H
Oh, ok. Did not see that, I am going to put this issue to resolved then.

#3 - 2019-08-01 10:20 - Tibinko H
- Status changed from New to Resolved

#4 - 2019-08-01 10:33 - Marius BĂLTEANU
- Status changed from Resolved to New

Tibinko H wrote:

```
Oh, ok. Did not see that, I am going to put this issue to resolved then.
```
It was committed another solution in that ticket.

#5 - 2019-08-01 10:40 - Tibinko H
Marius BALTEANU wrote:

   Tibinko H wrote:

         Oh, ok. Did not see that, I am going to put this issue to resolved then.

   It was committed another solution in that ticket.

Is it not exactly the same as I wrote above?

#6 - 2019-08-01 10:41 - Mizuki ISHIKAWA
Tibinko H wrote:

   Oh, ok. Did not see that, I am going to put this issue to resolved then.

I think this problem has not been solved yet.

Sorry, my comment(#31831#note-1) may have misled you.
In #31552 issue, #31552#note-3 changes were finally committed, not #31552#note-2 changes. #31552#note-3 changes were a partial fix and does not solve the bulk_edit problem.

   URI.parse(URI.encode(back_url))

I thought that your suggestion for solving the problem that occurs with bulk_edit is good.

#7 - 2019-08-01 10:49 - Go MAEDA
- Target version set to Candidate for next minor release
Tibinko H, thank you for reporting this issue.
Here is a diff of your workaround.

```
diff --git a/app/controllers/application_controller.rb b/app/controllers/application_controller.rb
index 06e2d702c..afbb30f3e 100644
--- a/app/controllers/application_controller.rb
+++ b/app/controllers/application_controller.rb
@@ -440,7 +440,7 @@
 class ApplicationController < ActionController::Base
         end
 -begin
 -    uri = URI.parse(back_url)
 +    uri = URI.parse(URI.encode(back_url))
 rescue URI::InvalidURIError
             return false
         end
```

#8 - 2019-08-01 10:51 - Go MAEDA
- Related to Defect #31552: View switches from gantt to list after editing an issue added

#9 - 2024-02-04 05:47 - Go MAEDA
You can fix this problem by preventing Rails from appending a "utf8" parameter to form URLs. This can be achieved by setting config.action_view.default_enforce_utf8 to false. https://guides.rubyonrails.org/v7.1/configuring.html#config-action-view-default-enforce-utf8
We can safely remove the "utf8=✓". This is because this is a workaround for Internet Explorer <=8 and Microsoft and Redmine no longer support the browser.

```
diff --git a/app/controllers/application_controller.rb b/app/controllers/application_controller.rb
index 9bd6b831a..ad16b0e77 100644
--- a/app/controllers/application_controller.rb
+++ b/app/controllers/application_controller.rb
@@ -475,11 +475,6 @@
 class ApplicationController < ActionController::Base
         url = params[:back_url]
     end
```
if url.nil? && referer = request.env['HTTP_REFERER']
  url = CGI.unescape(referer.to_s)
  - # URLs that contains the utf8=[checkmark] parameter added by Rails are
  - # parsed as invalid by URI.parse so the redirect to the back URL would
  - # not be accepted ( ApplicationController#validate_back_url would return
  - # false)
  - url.gsub!(/\(?utf8=\u2713\)?, '')
end

url

---

diff --git a/config/application.rb b/config/application.rb
index 069796185..1beeb2db2 100644
--- a/config/application.rb
+++ b/config/application.rb
@@ -45,6 +45,9 @@ module RedmineApp
 config.action_mailer.delivery_job = "ActionMailer::MailDeliveryJob"
 + # Stop appending "utf8=✓" to form URLs
 + config.action_view.default_enforce_utf8 = false
 + # Set Time.zone default to the specified zone and make Active Record auto-convert to this zone.
 + # Run " rake -D time" for a list of tasks for finding time zone names. Default is UTC.
 + config.time_zone = 'Central Time (US & Canada)'

#10 - 2024-02-05 03:09 - Go MAEDA
- Related to Feature #40190: Stop appending the utf8 checkmark parameter to form URLs added

#11 - 2024-02-13 10:16 - Go MAEDA
- File 31831.patch added

I have opened #40190 and posted the patch pasted in #note-9.

Apart from that patch, I suggest replacing URI.parse with Addressable::URI.parse(url) to address the reported issue. This change is useful for handling URLs containing non-ASCII characters, as demonstrated below.

```
irb(main):001> url = 'http://www.example.com/?utf8=✓'
=> "http://www.example.com/?utf8=✓"
irb(main):002> URI.parse(url)
/Users/maeda/.rbenv/versions/3.1.4/lib/ruby/3.1.0/uri/rfc3986_parser.rb:20:in `split': URI must be ascii only
"http://www.example.com/?utf8=\u2713" (URI::InvalidURIError)
irb(main):003> Addressable::URI.parse(url)
=> #<Addressable::URI:0x9b14 URI:http://www.example.com/?utf8=✓>
```

The replacement not only fixes the immediate issue but also enhances the robustness of validate_back_url. It remains beneficial even after the patch in #40190 is merged.

#12 - 2024-02-13 11:42 - Marius BÂLTEANU
- Assignee set to Marius BÂLTEANU

#13 - 2024-02-14 00:18 - Marius BÂLTEANU
- Category set to Code cleanup/refactoring
- Status changed from New to Resolved
- Resolution set to Fixed

Committed the patch after I've committed the one from #40190, Go MAEDA, are you thinking to merge this to stable branches without the changes from #40190?

#14 - 2024-02-14 02:23 - Go MAEDA
- Target version changed from Candidate for next minor release to 6.0.0

Marius BÂLTEANU wrote in #note-13:

Go MAEDA, are you thinking to merge this to stable branches without the changes from #40190?

I think we don't need to merge this change to stable branches because the issue is very minor.
Files

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<tr>
<th>File</th>
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<tr>
<td>31831.patch</td>
<td>1.2 KB</td>
<td>2024-02-13</td>
<td>Go MAEDA</td>
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